

Work Order Bid (ID)

CAC Housing Energy Services



CAC Housing &
Energy Services

WORK ORDER INFORMATION

Work Order Name: WO/80008KN1882/1

Work Order Type: Weatherization

Audit Name: 80008KN1882-Audit

CLIENT INFORMATION

Client ID: 80008KN1882

AGENCY INFORMATION

Agency: Knoxville- Knox County Community Action Agency

Agency Phone: (865) 244-3080

Address: (PO Box 51650) 2247 Western Avenue
Knoxville, TN 37950-1650

Fax: (865) 544-1647

Email Address:

Agency Contact: Neely, Richard

Work Phone: (865) 244-3080

Cell Phone:

Email Address: richard.neely@cachousing.org

Company Name & License Number: _____

Contractor's Signature: _____

COMMENT

`Comments

Single Family Dwelling

Contractor to follow 2006 International Residential Code as adopted by the City of Knoxville or Knox County as applicable.

City-House age is 1983

Measures

Measure 1 Seal & Repair Duct (return in hallway& 2 bedrooms upstairs)

Components

Inspected

Comment Reconnect return line in hallway upstairs.and reconnect existing flex to two boots in upstairs area.

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Flex Duct must be sized correctly. Flex Duct to be installed with straightest and shortest route, Must be secured with straps to alleviate sagging, and must be pulled tight so that inner liner is fully stretched out. . Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide.

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Labor	Labor Refer to Attachment A- Standards for Weatherization Materials and Southeast Field Guide.	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1	Construction Mate	Seal & Repair Duct	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Measure Sub Total:

Sub Total:

Field Notes:

Measure 2	Infiltration Redctn	Components	Inspected
Comment	Reduce air infiltration with 13 air seals. Each air seal is equal to 100 cfms. It is the responsibility of the contractor to find the air leaks. This is best performed with a Blower Door. Contractor must meet or exceed the targeted #. A house must not be brought below 1500 cfm @ 50 pascals. No CHANGE ORDER for air seals below the targeted #.		<input type="checkbox"/>
	"Open" Ring, Front Door, Pre 4609 CFM @ 50 pascals. Target is 3309 CFM @ 50 PA		

Mastic 13 supply boots

Bdrm1Supply12.9
 Bdrm1Supply13.1
 Bdrm1Supply14.5
 Bath1Supply5.3
 Bath2Supply10.9
 Bdrm2Supply10.9
 Bdrm3Supply14.3
 Bdrm4Supply13.9
 Living RoomSupply13.2
 Dining RoomSupply14.5
 Family RoomSupply12
 Family RoomSupply10.2
 KitchenSupply12.2

Liquid white Mastic to be applied to entire inside of boot to seal all seams. Top of boot where it meets ceiling, wall or subfloor to be caulked or foamed. Boots to be insulated on outside of boot to R-8. This is best performed with 2-part close cell foam. No changes allowed. Refer to Appendix A- Standards for Weatherization Materials and Tennessee Weatherization Field Guide.
 NOTE:When post audit is performed, all boots must be below 1 pascal with none over 3 pascals and not more than 3 boots over 1 pascal but less than 3 pascals.

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Labor	labor	Each	13	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
1	Miscellaneous Su	mastic supply boots	Each	13	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

Measure Sub Total:**Sub Total:****Field Notes:**

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Measure 3 DWH Pipe Insulation**Components****Inspected**

Comment Includes labor cost. Insulate the first 6 feet of hot and cold water pipe from water heater. Use pipe wrap with a R-value of at least 2. Cover elbows, unions, and other fittings to the same thickness as pipe. All corners must be cut properly. Keep pipe insulation 6 inches away from single wall vent pipe and 1 inch away from Type B vent. Interior diameter of pipe sleeve must match exterior diameter of pipe. Fasten with zip ties, tape, or other

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#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Insulation	DHW Pipe Insulation	Each	1					
2	Labor	DHW Pipe Insulation	Each	1					

Other Detail

Measure Sub Total:**Sub Total:****Field Notes:**

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Water heaters should be re-insulated to at least R-10 with an external insulation blanket unless water heater label gives specific instructions not to insulate or the water heater is already insulated. Keep insulation at least 2 inches away from gas valve and burner access panel. Don't install insulation below the burner access panel. Flammable Vapor Ignition Resistant models have combustion intake vents that must be left open. Follow the manufacturer's instructions when installing insulation blankets on (FVIR) water heaters so to not damage unit. Don't cover the pressure relief valve and discharge pipe with insulation. Don't insulate the tops of gas fired water heaters to avoid obstructing draft diverter. Mark the blanket to locate the thermostat and heating element access plates or cut the blanket at these locations. When you cut the blanket, cut the bottom and the sides but not the top. This creates a flap that remains closed in place. Don't cover the pressure relief valve and discharge line. Cover the top of the water heater with insulation if it doesn't obstruct the pressure relief valve. Install three zip tie straps (1st 6" from the top 2nd in the Middle, 3rd- 6" from Bottom).

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Hot Water Equipm	DHW Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	DHW Tank Insulation	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Other Detail

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total: <input type="text"/>	Sub Total: <input type="text"/>
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Field Notes:

Measure 5 Install/Replace Heatpump**Components** H1,H2,AC1,AC2,AC3**Inspected****Comment**☐

Includes labor cost. Must be installed by a licensed mechanical contractor. Must perform an ACCA Manual J and submit with invoice. Must be equal to Amana or Goodman 13 Seer Split Heat Pump, 10KW emergency heat. Size is approximately 2 ton. Final size will be determined by the Director of Housing. If size on ACCA Manual J is different from this write up, contact CAC before install for approval.

Install thermostat. Must educate client on operation of thermostat.
Contractor to provide all warranty information to client at inspection

NOTE: Home has two heat pump systems now that are not operating. NEAT audit software only recommended one replacement system. Please contact agency before work is performed and listed auditor on bid sheet will meet contractor on site.

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Heating Equipmen	Heatpump - Replacement 2 Ton Split System	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Other Detail									
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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Measure Sub Total:						<input type="text"/>	Sub Total:	<input type="text"/>	

Field Notes:

Measure 6 CO Monitor is Needed**Components****Inspected****Comment** Refer to Appendix A- Standards for Weatherization Materials
and Tennessee Weatherization Field Guide.☐

#	Material / Labor	Description / Comment	Units	Qty	Estimated		Actual		
					Unit Cost	Total	Qty	Unit Cost	Total
1	Health and Safety	CO monitor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	Labor	Labor	Each	1	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

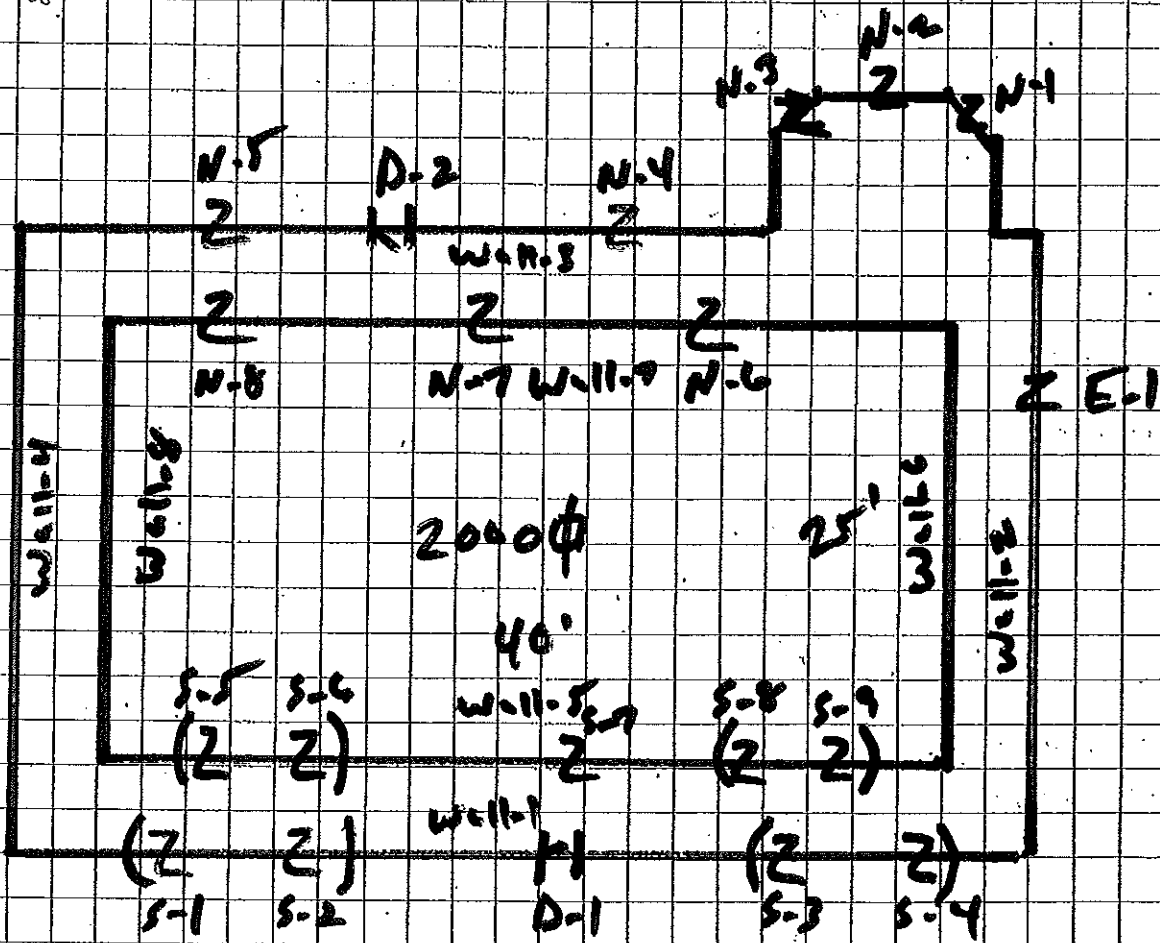
Other Detail

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Measure Sub Total:**Sub Total:****Field Notes:****Work Order Grand Total:****Grand Total:**

Site Diagram

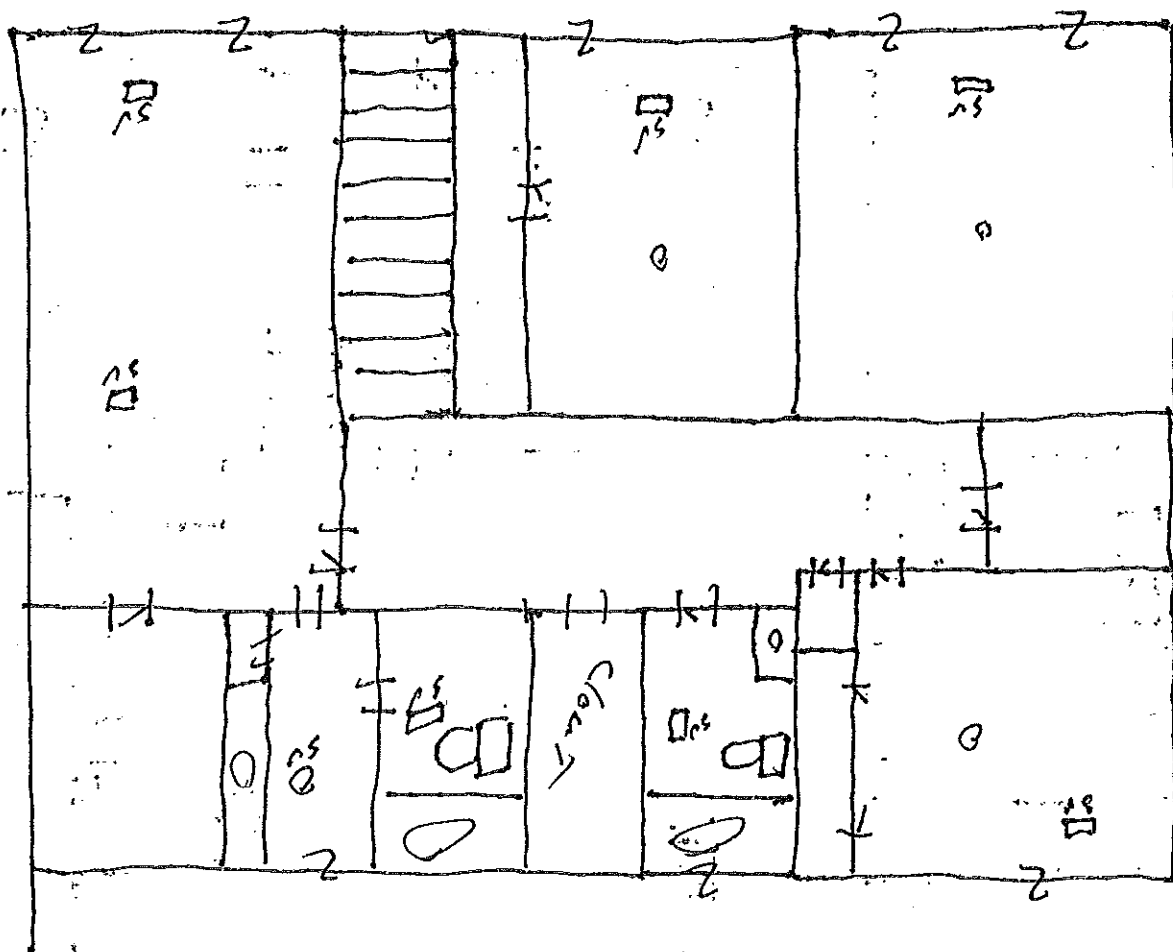
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3	5	X	3	5	=	E-1			
3	2	X	7	0	=	N-4			
2	4	X	5	2	=	N-5			
2	4	X	3	7	=	N-6			
2	4	X	2	4	=	N-7			



Client Name:
 Client ID:
 Alt. Client ID:

NEAT Data Collection Form
 Form Run On: 11/23/2009

DOE Weatherization Assistant
 Version 8.6.0
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